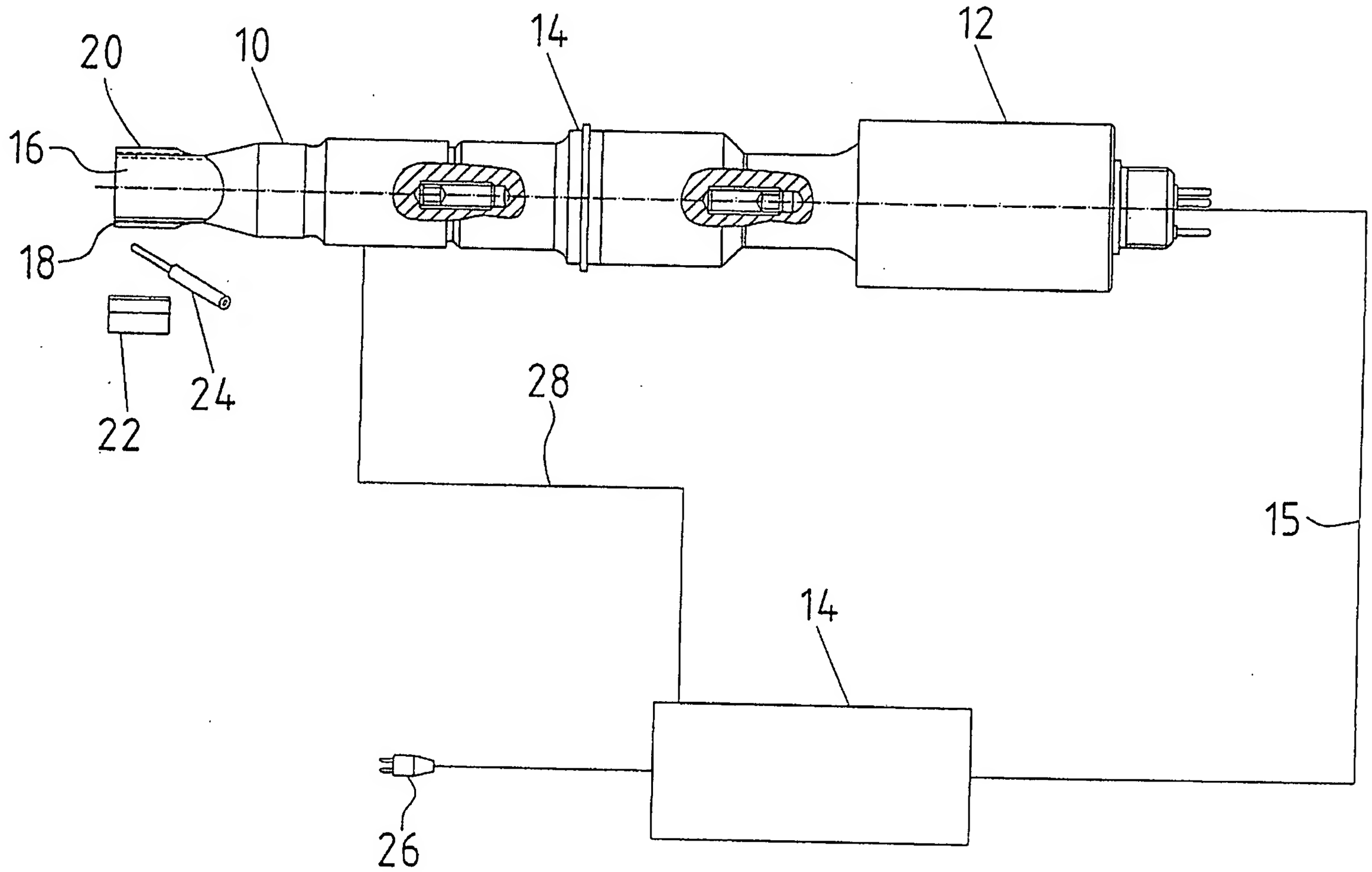
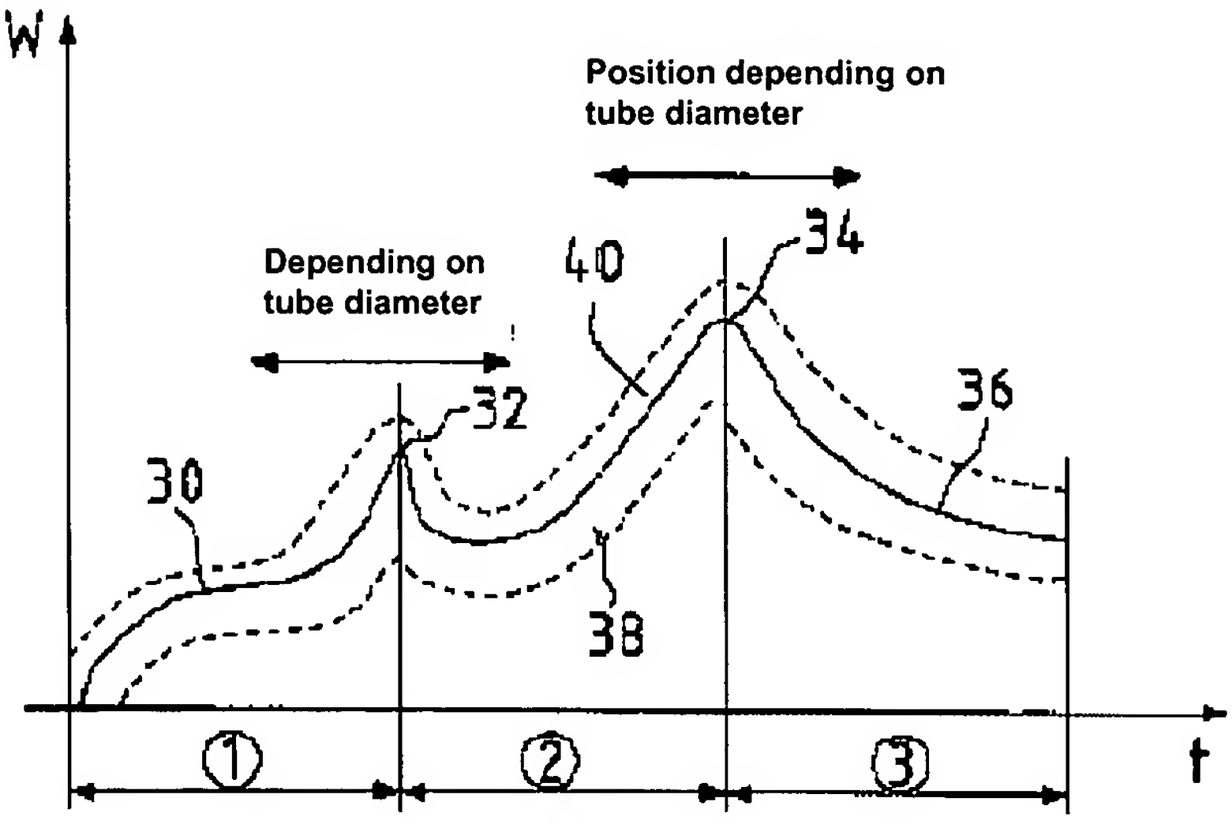



Fig.1

Fig. 2




Phase 1 recognize tube diameter
Phase 2 recognize wall thickness
Phase 3 (final)- welding